

Astronomy 312 - Fragile

Project 2 (assigned 2/9/16; due 3/15/16)

You may work in pairs for this project. If you do so, then you only need to turn in one solution.

1. Use an online catalog of supernovae to construct a data set containing at least 50 Type Ia supernovae and 50 Type II. Use your data set to look for a correlation between supernova type and host-galaxy type. Be sure to cite whatever catalog(s) you use.
2. Assuming a correlation is found, try to provide a physical explanation for the correlation based upon what is known about the progenitor systems of these two types of supernovae.
3. **Bonus:** Look for any other correlations between supernova type and other properties available in the online catalogs.